IN THE CLAIMS

Please amend the following claims.

(currently amended) A method of forming a semiconductor device comprising:
 forming a first patterned conductive layer on a dielectric material on a substrate;
 forming a non-organic first barrier layer on a surface of the first patterned conductive
layer;

forming a second barrier layer of silicon carbide on a surface of the <u>non-organic</u> first barrier layer;

forming a dielectric layer on a surface of the second barrier layer; and forming one of a via and a trench through a first portion of the dielectric layer and through a first portion of one of the <u>non-organic</u> first <u>barrier layer</u> and second barrier layer[[s]];

wherein the <u>non-organic</u> first <u>barrier layer</u> and second barrier layer[[s]] are to prevent diffusion of metal from the first patterned conductive layer into the dielectric layer.

- 2. (cancelled)
- 3. (previously presented) The method of claim 1 further comprising forming the trench through a second portion of the dielectric layer if the via is formed through the first portion of the dielectric layer.
- 4. (previously presented) The method of claim 1, wherein said one of the via and the trench is filled with a sacrificial light absorbing material.

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5. (previously presented) The method of claim 1 further comprising forming the via

through a second portion of the dielectric layer if the trench is formed through the first

portion of the dielectric layer.

6. (currently amended) The method of claim 1 further comprising forming said one of

the via and the trench through the second barrier layer followed by forming said one of the

via and the trench through the non-organic first barrier layer.

7. (currently amended) The method of claim 6 wherein said one of the via and the

trench is formed through the non-organic first barrier layer and the second barrier layer with a

single etch pass.

8. (currently amended) The method of claim 1 wherein the non-organic first barrier

layer comprises a thickness of less than 20 nanometers of silicon nitride.

9. (currently amended) The method of claim 8 wherein the non-organic first barrier

layer comprises a thickness of between 1 nanometer and 7 nanometers of silicon nitride.

10. (previously presented) The method of claim 1 wherein the second barrier layer

comprises a thickness of less than 200 nanometers.

11. (previously presented) The method of claim 8 wherein the silicon nitride is deposited

using any of a plasma enhanced chemical vapor deposition process, a chemical vapor

deposition process and an atomic layer deposition process.

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- 12. (previously presented) The method of claim 10 wherein the silicon carbide is deposited using any of a plasma enhanced chemical vapor deposition process, a chemical vapor deposition process and an atomic layer deposition process.
- 13. (currently amended) A method of forming a semiconductor device comprising: forming a first patterned conductive layer on a dielectric material on a substrate; forming a first barrier layer comprising silicon nitride on the surface of the first patterned conductive layer;

forming a second barrier layer comprising silicon carbide on the surface of the first barrier layer;

forming a dielectric layer on the surface of the second barrier layer; [[and]] forming, through a first portion of the dielectric layer, either of a via and a trench [[.]]

forming either of the via or the trench through the second barrier layer; and
forming either of the via or the trench through the first barrier layer with an etch
different from that used for forming either of the via or the trench through the second barrier
layer.

14. (cancelled)

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15. (previously presented) The method of claim 13 further comprising forming the trench through a second portion of the dielectric layer if the via is formed through the first portion of the dielectric layer.

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16. (previously presented) The method of claim 13, wherein said either of the via and the

trench is filled with a sacrificial light absorbing material comprising at least one of a dyed

spin-on polymer and a dyed spin-on glass with dry etch properties similar to the dielectric

layer.

17. (previously presented) The method of claim 13 further comprising forming the via

through a second portion of the dielectric layer if the trench is formed through the first

portion of the dielectric layer.

18. (cancelled)

19. (previously presented) The method of claim 13 wherein the first barrier layer

comprises a thickness of between 1 nanometer and 7 nanometer of silicon nitride.

20. (previously presented) The method of claim 13 wherein the second barrier layer

comprises a thickness of less than 200 nanometers of silicon carbide.

21. (previously presented) The method of claim 13 wherein at least one of the silicon

nitride and the silicon carbide is deposited using any one of a plasma enhanced chemical

vapor deposition process, a chemical vapor deposition process and an atomic layer deposition

process.

22. - 30. (cancelled)

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